

1. A method of handling an emergency telephone call placed from a caller over a packet network, wherein the caller logs-in to the packet network to receive a user packet address for use in packet communications, the method comprising:

in response to the log-in by the caller, receiving a correlation of a location with the  
5 user packet address into a location server;

storing the correlation of the location with the user packet address in the location server;

receiving the emergency telephone call from the caller over the packet network into a service node, wherein a source packet address for the emergency telephone call  
10 comprises the user packet address;

in response to receiving the emergency telephone call over the packet network, transferring the source packet address from the service node to the location server;

in the location server, comparing the source packet address to the user packet address stored in the location server to determine the location stored in the location server  
15 and correlated with the user packet address;

transferring an indication of the location from the location server to the service node;  
and

in the service node, routing the emergency telephone call to an emergency service that serves the location in response to receiving the indication of the location.

2. The method of claim 1 further comprising, in a packet telephone used by the caller to perform the log-in and receive the user packet address, obtaining the location in response to the log-in and transferring the correlation of the location with the user packet address to the location server.

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3. The method of claim 2 wherein obtaining the location in response to the log-in comprises obtaining the location from a packet interface used by the packet telephone to access the packet network.

10 4. The method of claim 2 wherein obtaining the location in response to the log-in comprises obtaining the location from the caller.

5. The method of claim 1 further comprising, in a service provider that handles the log-in and provides the user packet address, determining the location and transferring the  
15 correlation of the location with the user packet address to the location server in response to the log-in.

6. The method of claim 1 wherein the indication of the location comprises a telephone number for the location.

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7. The method of claim 1 wherein the indication of the location comprises an address for the location.

8. The method of claim 1 wherein the indication of the location comprises GPS coordinates for the location.

9. The method of claim 1 wherein routing the emergency telephone call to the emergency  
5 service that serves the location comprises providing the indication of the location to the emergency service.

10. The method of claim 1 wherein routing the emergency telephone call to the emergency service that serves the location comprises transferring the emergency  
10 telephone call to the emergency service over the packet network.

11. A communication system to handle an emergency telephone call placed from a caller over a packet network, wherein the caller logs-in to the packet network to receive a user packet address for use in packet communications, the communication system comprising:

- a location server configured to receive and store a correlation of a location with  
5 the user packet address in response to the log-in by the caller;
- a service node configured to receive the emergency telephone call from the caller over the packet network, wherein a source packet address for the emergency telephone call comprises the user packet address, and in response to receiving the emergency telephone call over the packet network, to transfer the source packet address to the location server;
- 10 the location server further configured to compare the source packet address to the user packet address stored in the location server to determine the location stored in the location server and correlated with the user packet address, and to transfer an indication of the location to the service node; and
- the service node further configured to route the emergency telephone call to an  
15 emergency service that serves the location in response to receiving the indication of the location.

12. The communication system of claim 11 further comprising a packet telephone configured to perform the log-in and receive the user packet address for the caller, obtain the location in response to the log-in, and transfer the correlation of the location with the user packet address to the location server.

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13. The communication system of claim 12 wherein the packet telephone is configured to obtain the location from a packet interface used by the packet telephone to access the packet network.

10 14. The communication system of claim 12 wherein the packet telephone is configured to obtain the location from the caller.

15 15. The communication system of claim 11 further comprising a service provider configured to handle the log-in and provide the user packet address, and to determine the location and transfer the correlation of the location with the user packet address to the location server in response to the log-in.

16. The communication system of claim 11 wherein the indication of the location comprises a telephone number for the location.

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17. The communication system of claim 11 wherein the indication of the location comprises an address for the location.

18. The communication system of claim 11 wherein the indication of the location comprises GPS coordinates for the location.

19. The communication system of claim 11 wherein the service node is configured to  
5 provide the indication of the location to the emergency service that serves the location.

20. The communication system of claim 11 wherein the service node is configured to transfer the emergency telephone call to the emergency service that serves the location over the packet network.

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